IN THE CLAIMS

- Please amend the claims as indicated below.
 Please cancel claims 1-9.
 - 1-9 (Cancelled)
- 10. (Original) A method for the preparation of a positive electrode active material comprising the steps of:
- (a) mixing a cobalt compound, a lithium compound, a compound of at least one element selected from the group consisting of aluminum, chromium, vanadium, manganese and iron and a compound of at least one element selected from the group consisting of magnesium and calcium, at a pre-set ratio; and
- (b) sintering a mixture from the mixing step to produce a compound represented by the general formula $LiCo_xA_yB_zO_2$ where A denotes at least one element selected from the group consisting of Al, Cr, V, Mn and Fe, and B denotes at least one element selected from the group consisting of Mg and Ca, and x, y and z are such that $0.9 \le x < 1$, $0.001 \le y \le 0.05$, and $0.001 \le z \le 0.05$;

the compound of at least one element selected from the group selected from the group consisting of magnesium and calcium, as used in the mixing step, being magnesium carbonate or calcium carbonate.

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- 11. (Original) A method for the preparation of a non-aqueous electrolyte secondary cell comprising a positive electrode, a negative electrode, and a non-aqueous electrolyte interposed between the positive and negative electrodes, comprising, in producing the positive electrode, the steps of:
- (a) mixing a cobalt compound, a lithium compound, a compound of at least one element selected from the group consisting of aluminum, chromium, vanadium, manganese and iron and a compound of at least one element selected from the group consisting of magnesium and calcium, at a pre-set ratio; and
- (b) sintering a mixture from the mixing step to produce a compound represented by the general formula $\text{LiCo}_x A_y B_z O_2$ where A denotes at least one element selected from the group consisting of Al, Cr, V, Mn and Fe, and B denotes at least one element selected from the group consisting of Mg and Ca, and x, y and z are such that $0.9 \le x < 1$, and $0.001 \le y \le 0.05$, and $0.001 \le z \le 0.05$; and the compound of at least one element selected from the group consisting of magnesium and calcium, as used in the mixing step, being magnesium carbonate or calcium carbonate.
- 12. (Original) The method according to claim 11, wherein the negative electrode contains an active material capable of doping/undoping lithium ions; the active material is selected from the group consisting of a carbonaceous material, and a polymer including polyacetylene polymer.

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13. (Original) The method according to claim 12, wherein the negative electrode comprises carbonaceous material which is selected from the group consisting of a pyrocarbon, pitch coke, needle coke, petroleum coke, graphites, vitreous carbon fibers, sintered organic high polymer compounds, carbon fiber, and activated charcoal.

- 14. (Original) The method according to claim 12, wherein the negative electrode is a material that can be alloyed with lithium and includes a compound represented by a chemical formula $M_xM'_yLi_z$ where M is an element of the group 3A or a metal other than the group 4A excluding carbon, M' is one or more metal element other than the element Li and the element M, x is a numerical value larger than 0, and y, z are numerical values greater than 0.
- 15. (Original) The method according to claim 11 wherein the electrode is a band-shaped positive electrode coated with a positive electrode mixture containing the positive electrode active material on both surfaces of a metal foil, and a band-shaped negative electrode coated with a negative electrode mixture containing the negative electrode active material on both surfaces of a metal foil, the positive electrode and the negative electrode being stacked and wound spirally by interposing a separator in-between.
- 16. (Original) The method according to claim 11, wherein the electrolyte is a solution of an electrolyte in a non-protonic non-aqueous solvent.

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- 17. (Original) The method according to claim 16, wherein the electrolyte is a solution of a mixture of one or more selected from cyclic carbonates or chained carbonates.
- 18. (Original) The method according to claim 16, wherein the electrolyte uses, as the cyclic carbonate, a solvent selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate, vinylene carbonate and gamma butyrolactone, the electrolyte using, as the chained carbonate, a solvent selected from the group consisting of dimethyl carbonate, diethyl carbonate, and dipropyl carbonate.
- 19. (Original) The method according to claim 16, wherein electrolyte comprises one of the inorganic solid electrolyte and a high molecular solid electrolyte as material exhibiting lithium ion conductivity.
- 20. (Original) The according to claim 16 wherein the electrolyte comprises one or more lithium salts selected from the group consisting of LiCl, LiBr, LiPF₆, LiClO₄, LiAsF₆, LiBF₄, LiCH₃SO₃, LiCF₃SO₃, LiN(CF₃SO₂)₂, or LiB(C₆H₅)₄.